

AMENDMENTS TO THE CLAIMS

Pursuant to 37 CFR §121(c), the claim listing, including the text of the claims, will serve to replace all prior versions of the claims in the application.

Please amend claims 1 and 7 as follows:

Listing of Claims:

1 1. (Currently Amended) A method for performing common call processing
2 management using a common software platform, with the method comprising the steps
3 of:

4 ~~with the common software platform comprising:~~
5 allowing horizontal components ~~for providing to provide~~ common functions
6 required in all communication systems, and to be reused in various communication
7 systems, with the horizontal components comprising a common agent, an operations
8 administration and maintenance module, and a common call processor; and

9 allowing vertical components ~~for providing to provide~~ specific functions on the
10 basis of communication systems[[,]] ;

11 ~~and with the method comprising the steps of:~~

12 allowing [[a]] the common agent to perform corresponding operations including
13 an operation of gathering Internet information on the basis of a predetermined schedule
14 irrespective of a manager's intervention;

allowing ~~[[an]]~~ the operations administration and maintenance module to administer and maintain a network in which the corresponding operations are performed on the Internet; and

allowing ~~[[a]]~~ the common call processor to manage a subscriber in response to a call signal provided from a physical component receiving a subscriber signal and set up a voice path on the basis of the call signal where the subscriber signal can be transmitted through the voice path.

2. (Original) The method as set forth in claim 1, wherein the common call processor comprises:

a call processing management application program interface for providing a switching interface, subscriber interfaces and an interface between call processing modules;

an event decoding module for decoding a corresponding command and extracting physical termination information and a relation index;

a component specific call processing module for organizing components for performing corresponding functions based on the switching interface and the subscriber interfaces and interfacing with a lower-order module;

a common call signal management module for processing and routing a signal generated from the switching interface and a control signal to a corresponding module in response to a request from a subscriber interface;

14 a common connection management module for controlling a connection for
15 setting up a voice path irrespective of hardware and an application program; and
16 a call resource management module for managing system resources associated
17 with call processing.

1 3. (Original) The method as set forth in claim 2, wherein the component specific
2 call processing module comprises a vertical component having at least one of a media
3 gateway control protocol interface, a V5.2 interface and a GR303 interface being voice
4 call signal interfaces.

1 4. (Original) The method as set forth in claim 3, wherein the physical
2 component comprises at least one of a switch module, a tone generator and a physical
3 port.

1 5. (Original) The method as set forth in claim 4, wherein the common call
2 processor performs specific call processing according to kinds of vertical and physical
3 components on the basis of the extracted physical termination information and relation
4 index, allocates a system's switching resources, decides path information and generates
5 a control command for a physical switch.

1 6. (Original) The method as set forth in claim 5, wherein the path information
2 decided by the common call processor comprises address information associated with at
3 least one of a card location and a destination by switching.

1 7. (Currently Amended) A computer readable medium comprising stored thereon
2 machine readable data structures for performing common call processing management
3 using a common software platform, with the data structures comprising:

4 ~~with the common software platform comprising:~~

5 horizontal components for providing common functions required in all
6 communication systems, [[and]] with the horizontal components comprising a common
7 agent, an operations administration and maintenance module, and a common call
8 processor;

9 vertical components for providing specific functions on the basis of
10 communication systems~~[[,]]~~ ;

11 ~~and with the data structures comprising:~~

12 [[a]] the common agent for performing corresponding operations including an
13 operation of gathering Internet information on the basis of a predetermined schedule
14 irrespective of a manager's intervention;

15 [[an]] the operations administration and maintenance module for administering
16 and maintaining a network in which the corresponding operations are performed on the
17 Internet; and

18 [[a]] the common call processor for managing a subscriber in response to a call
19 signal provided from a physical component receiving a subscriber signal and setting up
20 a voice path on the basis of the call signal such that the subscriber signal can be
21 transmitted through the voice path.

1 8. (Previously Presented) The computer readable medium as set forth in claim 7,
2 wherein the common call processor comprises:

3 a call processing management application program interface for providing a
4 switching interface, subscriber interfaces and an interface between call processing
5 modules;

6 an event decoding module for decoding a corresponding command and extracting
7 physical termination information and a relation index;

8 a component specific call processing module for organizing components for
9 performing corresponding functions based on the switching interface and the subscriber
10 interfaces and interfacing with a lower-order module;

11 a common call signal management module for processing and routing a signal
12 generated from the switching interface and a control signal to a corresponding module
13 in response to a request from a subscriber interface;

14 a common connection management module for controlling a connection for
15 setting up a voice path irrespective of hardware and an application program; and

16 a call resource management module for managing system resources associated
17 with call processing.

1 9. (Previously Presented) The computer readable medium as set forth in claim 8,
2 wherein the component specific call processing module comprises a vertical component
3 having at least one of an media gateway control protocol interface, a V5.2 interface and
4 a GR303 interface being voice call signal interfaces.

1 10. (Previously Presented) The computer readable medium as set forth in claim
2 9, wherein the physical component comprises at least one of a switch module, a tone
3 generator and a physical port.

1 11. (Previously Presented) The computer readable medium as set forth in claim
2 10, wherein the common call processor performs specific call processing according to
3 kinds of vertical and physical components on the basis of the extracted physical
4 termination information and relation index, allocates a system's switching resources,
5 decides path information and generates a control command for a physical switch.

1 12. (Previously Presented) The computer readable medium as set forth in claim
2 11, wherein the path information decided by the common call processor comprises

- 3 address information associated with at least one of a card location and a destination by
- 4 switching.